

Please amend the application as follows:

IN THE CLAIMS:

CLEAN VERSION OF THE AMENDED CLAIMS

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1) (amended) In a chain drive having a rotatable chain wheel with pockets or teeth connected by straight lines to form a polygon for driving pivot chains or round link chains, the axis of said chain wheel rotatably fixed to a driven gear wheel of a spur gear driving arrangement, said driven gear wheel having a variably sized pitch circle for reducing variations in velocity and acceleration of said chain wheel, the improvement comprising: said spur gear driving arrangement including a driving gear wheel for driving said driven gear wheel at an adjusted gear ratio, said chain wheel and said drive gear rotatable on a common axis; and at least one of said driving and driven gear wheels having a noncircular toothed gear wheel configuration established relative to the pitch circle and including a plurality of rolling curve means for causing said chain wheel to have a minimum angular velocity at a corner of said polygon and a maximum velocity at a mid-point of a straight side of a polygon while said driving wheel rotates at a constant angular velocity.

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39. (new) The chain drive according to claim 1 wherein the polygon is formed to drive a round link chain.

40. (new) The chain drive according to claim 1 wherein the chain wheel polygon (29) is shifted outwardly by equivalent polygon straight lines (26) for shifting together points of intersection (17) along the periphery.

41. (new) The chain drive according to claim 1 wherein the chain wheel polygon (29) is shifted outwardly by equivalent polygon straight lines (26) for placing ten points of intersection (17) along the periphery.

MARKED UP VERSION OF THE AMENDED CLAIMS

(Version with marking to show changes made)

1. (amended) In a chain drive having a rotatable chain wheel with pockets or teeth connected by straight lines to form a polygon for driving pivot chains or round link chains, the axis of said chain wheel rotatably fixed to a driven gear wheel of a spur gear driving arrangement, said driven gear wheel having a variably sized pitch circle for reducing variations in velocity and acceleration of said chain wheel, the improvement comprising: said spur gear driving arrangement including a driving gear wheel for driving said driven gear wheel at an adjusted gear ratio, said chain wheel and said drive gear rotatable on a common axis; and at least one of said driving and driven gear wheels having a noncircular toothed gear wheel configuration established relative to the pitch circle and including a plurality of rolling curve means for causing said chain wheel to have a minimum angular velocity at a corner of said polygon and a maximum velocity at a mid-point of a straight side of [said] a polygon while said driving wheel rotates at a constant angular velocity.